



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Thomas Kodadek

Serial No.: 10/754,457

Filed: January 9, 2004

For: METHODS AND COMPOSITIONS  
COMPRISING CAPTURE AGENTS

Group Art Unit: 1645

Examiner: Unknown

Atty. Dkt. No.: UTSD:935US

CERTIFICATE OF MAILING  
37 C.F.R 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to:, MS AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

June 30, 2004

Date

Steven L. Highlander

INFORMATION DISCLOSURE STATEMENT

**MS AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

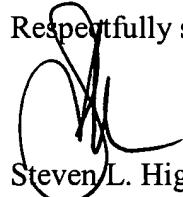
In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSD:935US.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,



Steven L. Highlander  
Reg. No. 37,642

Attorney for Applicant

FULBRIGHT & JAWORSKI L.L.P.  
600 Congress Avenue, Suite 2400  
Austin, Texas 78701  
(512) 474-5201

Date: June 30, 2004



# FULBRIGHT & JAWORSKI L.L.P.

A REGISTERED LIMITED LIABILITY PARTNERSHIP  
600 CONGRESS AVENUE, SUITE 2400  
AUSTIN, TEXAS 78701-3271  
WWW.FULBRIGHT.COM

*ZFW*

STEVEN L. HIGHLANDER  
PARTNER  
SHIGHLANDER@FULBRIGHT.COM

DIRECT DIAL: (512) 536-3184  
TELEPHONE: (512) 474-5201  
FACSIMILE: (512) 536-4598

June 30, 2004

CERTIFICATE OF MAILING  
37 C.F.R 1.8

I certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:

June 30, 2004

Date

Steven L. Highlander

**MS AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 10/754,457 entitled "METHODS AND COMPOSITIONS COMPRISING CAPTURE AGENTS" – Thomas Kodadek*  
*Our reference: UTSD:935US*

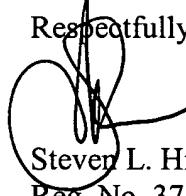
Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references A1-A13, B1-B9 and C1-C27.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSD:935US.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,

  
Steven L. Highlander  
Reg. No. 37,642

SLH/kmv  
Encl.: as noted



Form PTO-1449 (modified)		Atty. Docket No. UTSD:935US	Serial No. 10/754,457
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Thomas Kodadek	
		Filing Date: January 9, 2004	Group: 1645
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 2</i>	

### U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	2002/0006620	1/17/02	Short	435	6	4/03/01
	A2	2002/0022227	2/21/02	Short	435	6	4/12/01
	A3	2002/0098493	7/25/02	Nathan	435	6	5/25/01
	A4	2002/0137106	9/26/02	Leung and Lomas	435	7.9	3/07/02
	A5	4,789,628	12/06/88	Nayak	435	7	6/16/86
	A6	5,149,626	9/22/92	Fleming	435	7.9	12/18/89
	A7	6,297,059	10/02/01	Song and Swanson	436	501	6/22/99
	A8	6,306,643	10/23/01	Galtalen and Chee	435	287.2	8/24/98
	A9	6,344,330	2/05/02	Ellman and Choong	435	7.1	3/27/98
	A10	6,344,334	2/05/02	Ellman and Choong	435	7.1	3/26/99
	A11	6,365,418	4/02/02	Wagner <i>et al.</i>	436	518	5/18/00
	A12	6,406,921	6/18/02	Wagner <i>et al.</i>	436	518	7/14/98
	A13	6,465,183	10/15/02	Wolber	435	6	7/01/99

### Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	0268296	5/25/88	Europe			English
	B2	0317804	5/31/89	Europe			English
	B3	0491362	6/24/92	Europe			Abstract
	B4	0586618	7/16/97	Europe			English
	B5	0818467	1/14/98	Europe			English
	B6	WO 01/69258	9/20/01	PCT			English
	B7	WO 02/31510	4/18/02	PCT			English

25391809.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.



Form PTO-1449 (modified)

Atty. Docket No.

Serial No.

UTSD:935US

10/754,457

Applicant

Thomas Kodadek

## List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

January 9, 2004

Group:

1645

## U.S. Patent Documents

See Page 1

## Foreign Patent Documents

See Page 1

## Other Art

See Page 2

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
7	B8	WO 02/063299	8/15/02	PCT			English
	B9	WO 03/074990	9/12/03	PCT			English

**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
	C1	Bachhawat-Sikder and Kodadek, "Mixed-element capture agents: a simple strategy for the construction of synthetic, high-affinity protein capture ligands," <i>J. Am. Chem. Soc.</i> , 125:9550-9551, 2003.
	C2	Burkoth <i>et al.</i> , "Toward the synthesis of artificial proteins: the discovery of an amphiphilic helical peptoid assembly," <i>Chem. Biol.</i> , 9:647-654, 2002.
	C3	Cussac <i>et al.</i> , "A Sos-derived peptidimer blocks the Ras signaling pathway by binding both Grb2 SH3 domains and displays antiproliferative activity," <i>FASEB J.</i> , 13:31-38, 1999.
	C4	Fancy and Kodadek, "Chemistry for the analysis of protein-protein interactions: rapid and efficient cross-linking triggered by long wavelength light," <i>Proc. Natl. Acad. Sci., USA</i> , 96:6020-6024, 1999.
	C5	Figliozi <i>et al.</i> , "Synthesis of N-substituted glycine peptoid libraries," <i>Methods Enzymol.</i> , 267:437-447, 1996.
	C6	Hajkuk <i>et al.</i> , "Discovering high-affinity ligands for proteins," <i>Science</i> , 278(5337):497-499, 1997.
	C7	Han and Kodadek, "Peptides selected to bind the Gal80 repressor are potent transcriptional activation domains in yeast," <i>J. Biol. Chem.</i> , 275(20):14979-14984, 2000.
	C8	Kiessling <i>et al.</i> , "Synthetic multivalent ligands in the exploration of cell-surface interactions," <i>Curr. Opin. Chem. Biol.</i> , 4:696-703, 2000.
	C9	Kirshenbaum <i>et al.</i> , "Sequence-specific polypeptoids: a diverse family of heteropolymers with stable secondary structure," <i>Proc. Natl. Acad. Sci., USA</i> , 95:4303-4308, 1998.
	C10	Kitov <i>et al.</i> , "Shiga-like toxins are neutralized by tailored multivalent carbohydrate ligands," <i>Nature</i> , 403:669-672, 2000.

25391809.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)

Atty. Docket No.

Serial No.

UTSD:935US

10/754,457

**O I P E**  
**JUL 02 2004**  
**PATENT & TRADEMARK OFFICE - USPTO**

**List of Patents and Publications for Applicant's**  
**INFORMATION DISCLOSURE STATEMENT**  
(Use several sheets if necessary)

Applicant

Thomas Kodadek

Filing Date:

January 9, 2004

Group:

1645

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 2

**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
	C11	Kodadek, "Protein microarrays: prospects and problems," <i>Chem. Biol.</i> , 8:105-115, 2001.
	C12	Kodadek, "Development of protein-detecting microarrays and related devices," <i>Trends Biochem. Sci.</i> , 27(6):295-300, 2002.
	C13	Koehler <i>et al.</i> , "Discovery of an inhibitor of a transcription factor using small molecule microarrays and diversity-oriented synthesis," <i>J. Amer. Chem. Soc.</i> , 125:8420-8421, 2003.
	C14	Kuruvilla <i>et al.</i> , "Dissecting glucose signaling with diversity-oriented synthesis and small-molecule microarrays," <i>Nature</i> , 416:653-657, 2002.
	C15	Ladbury <i>et al.</i> , "Measurement of the binding of tyrosyl phosphopeptides to SH2 domains: a reappraisal," <i>Proc. Natl. Acad. Sci., USA</i> , 92:3199-3203, 1995.
	C16	Maly <i>et al.</i> , "Combinatorial target-guided ligand assembly: identification of potent subtype-selective c-Src inhibitors," <i>Proc. Natl. Acad. Sci., USA</i> , 97:2419-2424, 2000.
	C17	Melcher and Xu, <i>EMBO J.</i> , "Gal80-Gal80 interaction on adjacent Gal4p binding sites is required for complete GAL gene repression," 20:841-851, 2001.
	C18	Merritt <i>et al.</i> , "Characterization and crystal structure of a high-affinity pentavalent receptor-binding inhibitor for cholera toxin and <i>E. coli</i> heat-labile enterotoxin," <i>J. Amer. Chem. Soc.</i> , 124:8818-8824, 2002.
	C19	Olejniczak <i>et al.</i> , "Stromelysin inhibitors designed from weakly bound fragments: effects of linking and cooperativity," <i>J. Amer. Chem. Soc.</i> , 119:5828-5832, 1997.
	C20	Oliver <i>et al.</i> , "Multiplexed Analysis of Human Cytokines by Use of the FlowMetrix System," <i>Clinical Chemistry</i> , 44:2057-2060, 1998.
	C21	Schreiber, "Target-oriented and diversity-oriented organic synthesis in drug discovery," <i>Science</i> , 287(5460), 1964-1969, 2000.
	C22	Shuker <i>et al.</i> , "Discovering high-affinity ligands for proteins: SAR by NMR," <i>Science</i> , 274:1531-1534, 1996.
	C23	Stoll <i>et al.</i> , "Chalcone derivatives antagonize interactions between the human oncoprotein MDM2 and p53," <i>Biochemistry</i> , 40:336-344, 2001.
	C24	Terskikh <i>et al.</i> , "'Peptobody': a new type of high avidity binding protein," <i>Proc. Natl. Acad. Sci., USA</i> , 94:1663-1668, 1997.

25391809.1

EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

Form PTO-1449 (modified)		Atty. Docket No. UTSD:935US	Serial No. 10/754,457
List of Patents and Publications for Applicant's  INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)		Applicant Thomas Kodadek	
U.S. Patent Documents <i>See Page 1</i>		Filing Date: January 9, 2004	Group: 1645
Foreign Patent Documents <i>See Page 1</i>		Other Art <i>See Page 2</i>	

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C25	Thoma <i>et al.</i> , "Nanomolar E-selectin inhibitors: 700-fold potentiation of affinity by multivalent ligand presentation," <i>J. Amer. Chem. Soc.</i> , 123:10113-10114, 2001.
	C26	Vignal, "Multiplexed particle-based flow cytometric assays," <i>J. of Immunol. Methods</i> , 243:243-255, 2000.
	C27	Woodbury and Vinton, "Methods of screening combinatorial libraries using immobilized or restrained receptors," <i>J. Chromatogr B Biomed. Sci. Appl.</i> , 725:113-137, 1999.

25391809.1

EXAMINER:	DATE CONSIDERED:
-----------	------------------

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.